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Technical Bulletin #42

A1208 SCSI/RAM+ and PCMCIA Memory Expansion

January 18, 1994

Testing by GVP's Engineering and Technical Support departments have shown that GVP's A1208 SCSI/RAM+ is compatible with PCMCIA Memory Expansion devices, such as the New Media 4MB expansion card. However, additional testing has also shown that certain system configurations can cause functional problems.

As indicated in the A1208 SCSI/RAM+'s User's Guide, the first thing to do when installing a PCMCIA memory expansion card to the Amiga 1200 is to remove the shorting block on jumper J1 of the A1208 to restrict it to 4MB of expansion memory. This allows the upper 4MB of address space to remain available for PCMCIA card use.

It is also important to have at least 1MB of memory installed on the A1208 SCSI/RAM+ for the SCSI interface to be functional when a PCMCIA memory expansion device is installed. This is necessary because the PCMCIA memory area is not DMA'able, and GVP's `gvpscsi.device` uses DMA to transfer information to and from a SCSI device and system memory. Since the system's memory is not DMA'able, the SCSI driver is not able to access any memory to transfer data into, and is therefore not able to function.



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Technical Bulletin #41

A1291 SCSI Kit Compatibility Note

December 29, 1993

It has come to our attention that a small percentage of Commodore A1200 computers do not respond well to having an A1230-Turbo+ *and* an A1291 SCSI Kit installed with factory default settings. The symptoms of a problem are quite clear and immediate:

- ▶ The machine boots fine with the A1230-Turbo+ and NO A1291 SCSI Kit installed
- ▶ The machine fails to boot past a gray screen with the A1291 SCSI Kit installed

—or—

- ▶ The machine boots properly with the A1291 SCSI Kit installed, but none of the SCSI utilities can locate the SCSI device, or any SCSI units attached to it.

The solution is to remove jumpers J1 and J2 on the A1291 SCSI Kit and re-install it in the computer. The machine will boot properly and the SCSI interface will be 100% active and functional.

Revision 2.01 and higher of the A1291 SCSI Kit PCB's will have these jumpers removed permanently to prevent this problem from recurring. They are test jumpers that were supposed to be removed before mass production, but did not conflict with any of the test machines here, and were left on.

SOFTWARE BULLETIN
IV-24/For Your Eyes Firmware
VERSION 3.14

1 INTRODUCTION

This bulletin describes modified operating characteristics implemented by the IV-24/fye Version 3.14 software.
The new 3.14 Version replaces the previous 3.10 Version.

2 FUTURE HARDWARE REVISION SUPPORT (3.11)

Supports IV-24 hardware revision codes from 1 to 6.

3 GRABBING SPEED IMPROVEMENT (3.12)

Added a new digitizing function which speeds-up the process in certain cases.

4 HORIZONTAL DISPLACEMENT BUG WITH IVVIEW FIXED (3.13)

Each time Ivview (from version 3.13 up) loaded a picture, the H-Phase position was switched leading to horizontal displacements of up to 840 ns (similar to those generated by setting the H-Phase slider). This side effect was only apparent when in Genlock mode and using the external sync as video time reference (typically when using the IV-24 output in a downstream keyer). The H-Phase slider position as shown by IVCP did however not reflect this parasitic switching.

5 ZONE UPDATE COSMETICS FIXED (3.14)

Corrected some bottom of the screen artifacts in Zone Update mode.

6 CHECKSUM

The checksum of the V3.14 eprom is FBB2H

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Technical Bulletin #39

Rev. 4 GForce030 Accelerators and Boot68000

April 27, 1993

Customers have reported a problem rebooting into 68000 mode using GvpCpuCtrl with a Rev. 4 G-Force030 accelerator. The problem was intermittent and would not always occur on the same accelerator in different Amigas. A change in the value of resistor pack RP4 has eliminated this intermittent problem and the G-Force030 accelerators can once again software reboot into 68000 fallback mode with no problems.

The original value of RP4 was 4.7K, and the new value is 1.5K. This change has been made to the Production lines for the G-Force030 accelerators and can be identified by the following board level revision numbers:

- ▶ G-Force030/25MHz 4.06
- ▶ G-Force030/40MHz 4.09
- ▶ G-Force030/50MHz 4.06

Accompanying this bulletin is an initial shipment of replacement resistor packs to handle emergency customers. If further resistor packs are needed, please contact GVP's Technical Support department.



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Technical Bulletin #38

A2000 GForce040:

16MB SIMM Support & Large File Copying

November 20, 1992

A rare and unusual file copy problem when using an A2000 GForce040 was recently found and corrected. The problem occurred when the GForce040 was populated with **16MB of RAM and a file larger than 14MB in size** was copied from one device to another. During the copy, the SCSI bus would lock up and the machine would have to be rebooted. This problem is extremely uncommon, and to date has affected only one customer world-wide.

The solution is to replace the U6 MACH part; the original has a checksum of \$0543 and the new one has a checksum of **\$03D8**.

Additionally we found that certain combinations of 16MB SIMMs would not be treated properly when attempting to remap Kickstart into 32-bit RAM. A new U44 PAL solves this issue; the original has a checksum of \$9927 and the new one has a checksum of **\$99EE**.

All **Rev. 6.02** boards have these new parts installed and will not exhibit the above mentioned problems. Please contact your GVP Sales Representative for a kit that contains the necessary parts to update an older board that, if necessary.



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Technical Bulletin #37

GForce030/40MHz Accelerator Jumper Change

December 9, 1992

The 40MHz version of the GForce030 Combo accelerator has been updated to improve performance and stability across all Amiga 2000 machines. The change includes both a default jumper setting change and a PAL change.

All new boards produced by GVP from the above date will be configured with these changes, and have a revision levels of 3.06 and 4.03 respectively. Addendums will be included with all new units to indicate the new jumper settings.

NOTE: These changes do NOT affect the 25 or 50MHz versions.

BOARD REVISION	JUMPER/PAL	NEW DEFAULT SETTING	PAL	New Checksum
Rev. 4	CN8	No pins shorted	U36	\$90C4
	CN17	All three pins shorted		
Rev. 3	CN8	No pins shorted	U36	\$90C4
	J11	Shorted		

G-Lock GL Program Error Messages:

--> GL Program version that reports these messages: V1.15 or greater

Error #:

- 1 - No copyright message was found in the EEROM. (Unit not calibrated)
- 2 - EEPROM Data Format was wrong. (Unit not calibrated)
- 3 - Can't read EEPROM data. (Hardware failure)
- 4 - Checksum mismatch. should not occur. (Bad EEPROM or Noisy signals)
- 5 - Problems, but both SDA and SCL tested ok. (Noise??)
- 6 - Problems with SDA LINE. (Bad cable)
- 7 - Problems with SCL LINE. (Bad cable)
- 8 - Should not appear
- 10-22 - Should never occur unless cable yanked in operation.
- 100-108 - Has error text, user may have a bad ILBM file.

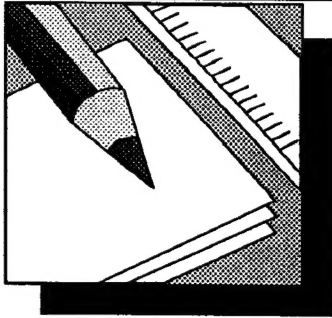
Note:

- A) Codes 1 and 2 basically mean NOT CALIBRATED.
- B) Others (3-22) mean IIC COMMUNICATION PROBLEM - BAD CABLE



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Memo

To: *GVP Distributors*
cc: *GVP Sales Department*
GVP Return Department
From: *Paul Higginbottom*
Date: *February 4, 1993*
Subject: *Factory Calibration error on recent shipment of G-Locks*

A recent batch of G-Lock genlocks were shipped without factory default settings stored in the onboard EPROM. The genlocks successfully passed the production and calibration tests for reliability and functionality, but the last step in the calibration process -- storing the calibration values in the onboard EPROM -- did not function properly.

The error was detected and corrected. The affected units have serial numbers in the range from VXX0000287 to VXX0000437. Not all of these units are affected, but any in this range should be returned to GVP for testing and re-calibration, if necessary.

In order to avoid any potential inconvenience, we would like to have these units sent back to the factory for re-calibration. We have a supply of properly calibrated G-Locks ready to "swap" with dealers/distributors who have been affected by this minor calibration error.

Please call your GVP Sales Representative for an RMA #. Once you receive the RMA #, please ship the G-Lock units back to GVP freight collect economy and fax us immediately with the shipping details. When we receive the shipping details, we will send advance RMA replacements.

Thank you for your prompt response and support in this matter.